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FIRST NAMED INVENTOR ATTORNEY DOCKET NO. FILING DATE APPLICATION NO. I AKM-00301 03/15/00 HIDAKA 09/525,802 **EXAMINER** MMC2/0514 026339 CRUZ, L HUTCHINS, WHEELER & DITTMAR PAPER NUMBER ART UNIT 101 FEDERAL STREET BOSTON MA 02110 2815 DATE MAILED: 05/14/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

	Application No.	Applicant(s)
Notice of Allowability	09/525,802	HIDAKA, ITSUO
	Examiner	Art Unit
	Lourdes C. Cruz	2815
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance and Issue Fee Due or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to A CPA filed April 18 2001.		
2. The allowed claim(s) is/are <u>1,2,5-16 and 18</u> .		
 3. ☐ The drawings filed on are acceptable as formal drawings. 4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the: 		
1. Certified copies of the priority documents have been received.		
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
5. Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE FOR SUBMITTING NEW FORMAL DRAWINGS, OR A SUBSTITUTE OATH OR DECLARATION. This three-month period for complying with the REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL is extendable under 37 CFR 1.136(a). 6. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED. 7. Applicant MUST submit NEW FORMAL DRAWINGS (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review(PTO-948) attached 1) hereto or 2) to Paper No (b) Including changes required by the proposed drawing correction filed 9-15-00, which has been approved by the examiner. (c) Including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.		
8. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Any reply to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE / SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included.		
Attachment(s)		1D (1A 15-45-11 (DTO 152)
 1⊠ Notice of References Cited (PTO-892) 3□ Notice of Draftperson's Patent Drawing Review (PTO-948) 5□ Information Disclosure Statements (PTO-1449), Paper No. 7□ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	4∏ Interview Sumn 6⊠ Examiner's Am	tement of Reasons for Allowance
	SUPE	EDDIE LEE ERVISORY PATENT EXAMINER ECHNOLOGY CENTER 2800

U.S. Patent and Trademark Office PTO-37 (Rev. 01-01) Application/Control Number: 09/525,802

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DETAILED ACTION

This Office Action is in response to a communication filed April 18, 2001.

EXAMINER'S AMENDMENT

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The application has been amended as follows:

Delete current title of the invention and write in place SEMICONDUCTOR

DEVICE INCLUDING MULTI-LAYER STRUCTURE FOR NOISE PREVENTION.

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: There is prior art regarding semiconductor devices having multiple wiring layers comprising signal lines, adjacent lines formed in the wiring layer where the signal line is formed, and intersection lines formed in the wiring layers.

See that Gaibotti et al. (US 6133621) teaches the above structural limitations.

However, independent claims 1,5,8,10,13 and 18 teach the limitations of a semiconductor device having multiple wiring layers comprising entire-line-area through—holes which respectively penetrate through the insulating layer above or under the wiring layer where the signal line and the adjacent lines are formed. These limitations in combination with the specific limitation of "wherein said signal line is completely enclosed by said two adjacent lines, said two intersection lines, and said entire-line-area through-holes" make the independent claims in the application allowable over the prior

1.

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art of record. Likewise, the dependent claims in the instant application are allowable as

being dependent upon an allowable claim.

Any comments considered necessary by applicant must be submitted no later

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than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Lourdes C. Cruz whose telephone number is 707-306-

5691. The examiner can normally be reached on M-F 8:00- 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Eddie Lee can be reached on 703-308-1690. The fax phone numbers for

the organization where this application or proceeding is assigned are 703-308-7722 for

regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0956.

Lourdes Cruz

May 10, 2001

Lourdes C. Cruz Examiner

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